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First et al., I wish to them Dr. Mary Smoot Mantanell for always commission over et no them I thought I could give, and never writing for top. The served as a exempter of professional solutionable, personal ricertig, standing! Impelly, and economic responsibility. Withing her

constant appear into project would not have been consistent.

Zive, I would be express my metalysis to Dr. Elling Soldeli, Dr.

James Algine, and Dr. Sack Rale for all the boars they devoted in works

with me, medicy, analysis, and criticising the nemocrist. Their

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A hearthic not of thingining is also appeared for the way pried out sociologic of the control of the control of the control of particular with worst tapers, technical polanes, and personal counter. On Small Researe, On Confine Labour, On Sabert Smight, Collecte Sociologic Paper, and Albah Smisocy were after called upon for assistance and shape responded.

Printing, I wish to express my despect gratificate to my family whose love, havor, and understanding halped on to maintain my equilibrium.

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Yorks Nata Autol August, 1962

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George Translation agress Robs of Apprecentation

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- reformation when the protectables node of the specifies its verbal as when it is figure!?
- De abadests recell none referentren vised one area of geometry, such as triengles, then they de abect median area, such as circles?
 - See the sole of presentation of the aliciting question stem affect the occuracy of the received information is specific errors?

tion surplect 5. What hypotheses for future research can be preceded

concerning the accuracy of received factual beaming the learner's perception of how the information was matriceed from sensory, and success in problem

theses of the Stat

The Appotheses tauted in this study were generated from the four questions. These are

- H_g3: For the total population there is no difference between the total neen score on the Prerequiside Facts Test (RFT) for the Rental and Financia proper.
- H_Z) for the population scoring is the upper quartile, there is no officerous between the total new scenes on the Personalitic Packs Insk for the Verbal and Figural process.
- (4,2) For the total population, there is n interaction between the four content areas and the two presentation radios

i.d. For the population scoring in the upper quartile. Dure is no indensatio between the four content areas and the

8.5: For each of the content areas and mole of presentation there on me difference in the mean scenario debrined by the total population and the population according in

Presente distributions, repression equations and ANNA sales from the data generated by a serols of 200 statests for faur different regions of the latitud Status Boys, Xassas, Maril, Planties, Gelmentille, Floride; and Alliess, Seretia. All students had completed a course for high salest assessment.

The first forestipping to generated specificies for future research serve distinct from its stateman who strends they forested to listematifies, Flarifies. For these solutions, between the terrorises are said a state day solled one-written problems. Their subcloss were said-said and subconnective correct for function before subcloss ware said-said and subconnective correct forestate links of problems of the date follows have subclosses.

Autoritation of Born

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whall— the word definition of a compatition represents the legise-debethy commons of powerty; the dwarters stone on the Francatistic facts fact that we work is all of required.

sentition—she mental process by which knowledge is

Prinsplifts Facts Test represent the festual behaviors on Individual bis learned, mysacognition a mental process that transposed capition

the individual's mammans of how facts and concepts are retrieved from memory, the fire consuming on the Proventies Facts Deal receiped to the Seventies Line of her receiped the stocken's personline of her handledge is received.

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The second volume receives the description frequent and a recovered frequent and a recovered frequent and a second for the second volume frequent and a second for the second for the

study are given in Chapter TV. Chapter V includes a summery of the investigation, a discussion of results, limitations of the study, implications for instruction, and suggestions for future vacances.

CHAPTER THO THETHER THOM INCOMODING AND HIS CHAPT STEMMEN

Theoretical Books

This section presents served there'nd asserving the solitoner of territor and visible served se

APPLICATION OF PARTY

The extination of options believe to the early instructionprocessing entire primaries in hereing of instruction performed precisions to have available to the computer precision of mostine, strongs, see retainings, beginning of the particular information processing lead sufficient, more was expensed to be an act contentsatured to examine considerable or instruction of the content of the restriction of the content of the instruction of the content of the precision and a result of the content operation and the content of the content of the content of the content operation and the content of the con Satting care storage elements Outnow, 1983). Therety, these, set any to specifying out ministrate before strikes and requires that their to employ out ministrate between of their strikes and their strikes. In their fraction of the purposes from their dividuous Workshit. In this man, the three between possions with a respective of strategies stated in log-come waveger all extracts a tribulish-ordered in the market purposes and their strikes of their strikes of the regions and sensions in that the pulpose in which is only an extract to the strike of the strikes of their strikes of the purposes can extract information-proceduring upones to show the sension consecution in the sensitivity of contrived and these stated and the sensitivity of contrived and the sensitivity of contrived and the sensitivity of contrived and the sensitivity of the sensitivity of sensitivity of the sensiti

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The folia of finance is a sharpersolical (New). The independent processing model described below those the power of a betweenform's system, a tome cated by Seekelby (1995) as harden been corned by writingful localitypose theories. It was adopted and own-local day the hitchestical (Addition Properties the Relevancy of seekelby of the Relevancy of seekelby the first properties the first proper



Polys No. medi, all of the different component may foliams, indifferently and continently beload of competibility, stop-for in a introcected feature. The inflament of the facility particular in reflects to the way to which type to the upsine science, as a function of booth the procession and meany removants. Once the views extends in shousher into the upstern, the processor certain or in form assessy and them as the propose processor for the central presents on meany and them and the propose processor for the central presents where fit may affider the directed by the scacetive is such the system or return to mention are for further processing. The executive commands mentions all processing and controls such affective variables so notice tion and financest (fill poorful, 1979).

Shale a stitute is enter the cycles is a unablation of the energy and perception comments, and since perception to influence by memory and part on equitations, the memory configurates as an integral and critical part of the process, and just as a dominant and commission feedings. However, and set the time of the control or of feedbase in discognizing baselines. However, are just the time of influential component of recomms percentage. In this high

and the fact

As a compact of the information-possistic malk, assury as the software to an extraction and condition of use of the an elementaria. A swinkley and help reposed by Porton (1912) and actionally Nove (1914) (Information the off and accounting, which indicates the condition of the

Centrit Steery of differentiative



Darks has well of this consistent amounts's describes. Which programs is not him whose the legal describes, which is placed and good interest as a described, it does not already that the legal and the task is of the type that Falya (1962) calls the see-rule-under

A problem to only a problem when the way to color it is not known by the problem selver, etherwise it is an exercise (Eastwald), 1818). If a tautook "problem" at the end of a chapter on ered is

Counts has a closure of 12 min reliable to the count of t

ASCO is a rectangle issortied to the first quarter of circle b, RC is 5 m, RC is 3 on, Find



If which exempt this is notified to a lab before its density or a comparing of the many of a critical and the same a particular size of the many of the comparing containing in a destination, the speaked properties are a destination, as the other size of the containing the speaked size of the containing the speaked size of the containing the containi

sea count or the opposite construction, in an information processing each (, or the count of the opposite count of the opposite count of the opposite count (Section 3, 1975). They are in proceedings county of the opposite construction of the opposite count of the opposite county of the opposite to the processing of the opposite county of the opposite county of the opposite to the processing of the opposite county of the opposi

The exect for a universal perfect mathed of problem maining her watere succeeded them old the quest for the philosopher's stone. (2007, p. vs)

As a result, there is a need for statemin, not only so study the process of solution but also in solve many different types of possible If Step are to achieve success in problem-solving activisies: Continues to the first term to the continues of the continues to the conti

Samurable pas make in severe was not the common. They meet the many that a draction is seen in short three common. They meet the many has many deliver, you must be a first handward. Machanel. Machanel and the series will be a first the problem, the you of three cents has to be commonted into the allies opiniosent, then will tail the law right of the common to the common that the common to the common that the co

In second test counts was perform critically arrived are visited in produces of the profits of the count of

Projecting, wheel as a wakeheld associative believes straight and request, is not partial in the infrared temperature protein the Repetting or personal less of infrared to in presence associated with the Repetting or personal less of infrared to in presence associated with violative memory. Softwardist with the result logic term entry result stated laters; for what'ting to receive the infrared to increase trained laters; the wealthy to receive the infrared to increase trained to receive the control of the collines of the received as received in the COVE and the control of the collines of the received as received.

There are now new PATTHEMS BECAMENDE. LITTLE (FIRST) AMERICAN TAKETOWN TO TEMPORE, CARRY DAME OR A EXPECTATION OF THEMPORE THE PATTHEMS OF THE

temps of the best advanced to become farthered. Replace the first process of the second to be a second to be a

cools Teamen IV. bostory, but/for natory contains the information that all theorem operation should bidamperion could be provide to parallelest process will brancher this capped into yearly-laws manary for immediate and processing of the perticulars by working memory. In this 11sht corine and recall are seen or the Games of the own cale. The more formal impatement or components as implicated our chast one removate and necessiognasts for codyte the sector they are to country framerica (1988) consequently as the one and saids from all Indometron-concession relaxation. Is notable on convertute. organizate facts to turns of properties and ideas

Cancest Formation and Beratt Number of 1982) representation of congest formation is also analizable to a discussion of the person openess, is an informationproperties model of opportion. We supports that we wrom a sension as a natur on a position on a state, the react logities of the rescent in In expensive the of the coerclastes represents a continue from the coordinate refers to the abjective content, for expedie, whereit to a ordinate, and subprilings concepts. He refers to this manifolm of

a caccast as 150 mesons of pomerality, and axes this mesons to determine which of the metal factual aparticon-emperature, pogneto, or conclusion-wise is partitional vision for exceeding of encomment concosts. The assection completes, we conjunction with warding memory, purforms these times intallicated sperializate in the information-

processing model.

It were necessaristic opproach to cancept hearing in the ear
described by where (1955). If the state of the presented that are
featural in all compared but has, one response both leaf fruit
"Introduce models and the same on the execution that introduce produce and the same on the execution that introduce produced becomes featured in the same could be executed that introduced the contracted of the same accounts. The described in the same accounts in the described in the same accounts.

irreduce Imponents PRESS $\lambda \longrightarrow (a_1, b_1, c_2, \dots, b_n, c_1) \longrightarrow p$ $\lambda \longrightarrow (a_1, b_2, c_2, \dots, b_n, c_1) \longrightarrow p$ $\lambda \longrightarrow (a_1, a_2, b_2, \dots, b_n, c_1) \longrightarrow q$

The first two intentions, some they querying the same regions, are colled selected valuations of sufficiency, the senses two querying offerent, though, forecreptials, responses and one called strate valuations of disjunction. If we apply this to the central angle of terriperiors, we opto the to the central angle of the called the college of the called the calle

a - circle A - circle
a - angle b - angle
e - teterier c - (wherite

discourage of context of a parter as all

Of the respect operated by the Could's I for a fine expect of the could be a fine to the could be a fine of the could be a fine to the could be a fine of the co

priote by the executor.

The west intuitively sivinus evidence for a visual communerary onces from the skilling so recall information that we would here press cell'scale describing a series. Let's a vise et me from front deput on tate from a review can vivilly in resultate from enemy bet assessed assistant and the review can vivilly in resultate from enemy bet assess descentify in describing in owner. The shalling on some to the control inquired were consistent extracted in some of the entitle press of the control in the co

Due was been been (1991) and see an operate theory materials are sense of a second or a se

abilities of which discriminating perception in two-space is a pertuintification model will be excussed more fully later in this section.

sections were one to the set or the wall-drope start setting means that could be aristone of tenerals special and winced bearing springs. Control to this theory are bet assumed on indeconducts and interconnection. State the approxy function improveduction of each other, they can store conditioningly distributed information in names. Since they are interconnected, activity in one can elucit extractly in the other. Thus, figured attends on produce internal appareted by Justin and words from the northal purpose. Francischia between systems in the opposite direction may not be an reacity accomconnection between the vertal and imaginal system do not exist. Marks that have a concrete inner act directly on the inscery poster to teritiate setrality. Shatract words that have either so reages at all or change ones connected with them restrict activate to the vertex sected and a courch of its memory backs. Inappry, in this principles, but nother as artise, except practs that is combined making what-

ever Changes are needed in the specific value to transform it into the westernii febb!: The week of Childratii (2000) on methemotical whitisted ind into conclude that the presence or absence of the whiting to imagine meaning the position of a powering being is associated the reciprocal distribution of via parts (passatric deptivation) assessing the biasis Spain of embowarded admitted in statistic or with their presentance and patients in outfaint. There is stall statistic oper of solidity that stated were fail to provide them benefated, they have desirable parts of employed and called a patient provide without the Support of Vision Souths, "Pen Ma statistic work in conclusion that Stople in extending can admissible only with a contain that Stople in extending can admissible patients with the contains that Stople in extending can admissible patients with all cashes and stople of the statistics of the parts of par

point: White Seviceshil sees the additions of the perceives and algebraic billities merged fels a hereastical type where both legis and visualization can operate to solve a problem, Chansky visualization can operate to solve a problem, Chansky visual language and describerant of this souths, though central to herea facilities.

as radically cut off from other faculties such as visual perception.

Social and Promocous World (Medically).

Basely (NISE) results for the relating by the notified page in certain pages and a longer conformation for the relating to the notified pages. It is a longer to the certain for the relation of the result is designed for the relation of the results of the relation of the relati

words topother so that they passes, what he calls, the remember of well-foresteemen. Then, we say "I so he was also is have sail's for "So the was well are to sail!" Soften shortware offline is as proud a particular set of weeks, or spreaks at that they need set of positions are set of well as strategies, and the three hours, is determined that they need set of positions that they need set of the strategies to the three hours, is determined that they need to set of raises of revent our set of raises of rais

The process of secretic part executing control force many is surfaced by other tests have part extraordy applicance by their tests have part extraordy transport for their tests are part of process. The existence of a finite test process was set of the tests of the second of the tests of the tests of the tests of the part of the tests of tests of

They are entire apeles

There are explore that portion on

It is apples to

County (1965) prisod out the fine in a Pfelte state presenexplanation by exemples 1968 the mas close store and emphasized the need for a nine encongessing approach. Its consistent the notices of course structures and investment investigating present. It is planed structure present, a sentance in impressed by a first inference as a Mammorby of

modes. The first deep structure interpretation of the embiguous Adol a sentence is diagrammed below.



to sucond interpretation is represented in deep structure as



Byth true dispess are the case through the third Tereli- Dely by changing the alignment of Teaching" does a different meaning and deep periation. This is what is stored in long-law meanty by the inti-

to the exercis of the verbally presented stimulum.

a name of ancie to resoured by

deep structure respresentation of the coccept may greatly able response. If the individual coded the factual homeladge as

the measure of a control angle is <u>releted</u>
to the measure of its intercepted ere.

The tree discret stems to Figure 1 would result. The same tree file-

gram illustrates the deep structure coding of

the measure of a control angle to measure by the measure of its lettrocyted arc:

Since both of these representatives have the cost tree dispret end generate the same surface structure, provided, superfluous, and toosffracest intervative case only be datacted to the opting of the emb structure processoration. Certificia, to the transformational promot generating, could be stated cost of the supercritical endings.

> as angle formed by lines intersecting inside (authors) a circle is resoured by men-half the sum of the measure of the referential arcs.

was coded to famp-term namery. In the generality of this concept files its power and economy. Once references from lase-term sensory it would



eta autominista concepto-

to the histories on special sholling, Juni as it shell of netheration special sholling, Juni as it shell of netherational shilling, our fided on untrang tenth self-net, writer, were composed in the short tenth self-net tenth self-net tenth self-net shilling me closested to on other to deliver the tense. This section will premote a level look at what visual-opetical shilling resums to different researchers and who have sensor our finestfeld and required.

would's Yearly (SER) (to be inverse of Membra), and a service of Membra (SER), a finite or which is failed (S. In his metallythe (SER), designed to receive the same finite or (SER), and service the same finite or (SER), and service the same finite or (SER) and service the same finite or (SER) and service the same finite or (SER) and service the same finite s

subcomponents done by Michael, Sufficed, and Zumurman (1950). Theirs was an abbrect to contine and serify the various factors identified.

Institute of the state of the s

The facility blotters and forestend and at Prachitation forms because materials of the proof amount of the transcription for the inclination devertion with the Proof amount plans. The Quotificat of Proof Interest and 10, this in determination to their commerce contact, without, and the proof amount of the comcession of the proof amount of the proof amount of the comtraction of the proof amount of the proof amount of the comtraction of the commerce of the commerce of the commerce of the comtraction of the commerce of the comm worstlike we actificate, the location, or its companies of serial, but be translated in the same inschiler for the D. The premising of the cognition of frepail series could not be expertise of frepail solutions and the location of the series of the construction of the location of the series of t

questions of institution quantities are previously to information of the copuests. Gentline in assembled by the embrace may be executive, contribution assembled by the embrace many between the executive, contribution regard, assemble, and spatch content. Generally distribute quarter less as much as the statulor-regional other is made; disreposit thinking expressivable seas all possible and emetally pleasable assembled as as the statulor-regional other is made; pleasable assembled as as the statulor-regional other is made; disreposit thinking expressivable seas all possible and emetally pleasable assembled as as the statulor of the counter-where decirtation as possible-rift and analysis and

Refered Research

The Entertone of Verbal and Visual Reverber

The news of meanspectatings provides some evidence for separat risual and works? memory systems. But a that were collected from solven on the children design to be secured. The most which the best point of the security resides with the complex of the security resides with the complex of the security o

Institute (1991), appendixed and managing the special of last of managing distribution. The last of security and publish, a proposed section, and remains the last of energy cares the man there is there in the result was primarily to recording, a large value of a manerial was primarily to the control of the control of the control of a man and a small relation and a cost. An emproposite statistical pair records and a small relation with a cost to the temporary statistics and a small particulation of a managine of the primarily large pairs and a small public lation and plainess within emproved primary specific value. The public public statistics are public public to the cost of the cost public statistics and public public public specific values of the cost public statistics and public public public public public public statistics and public public public public public statistics and public pu

number a classic week as easiery, Separatories (1922) oneretains a view of commery that is being remainded and applied by operitios and information-processing chearists today. He wrote to man the use of manager material created a highly setificial situation and that receiving habits statied is a verbal Tearwise Superatory had titude to do with suppose to entroder life. Sprtlett's encorroseds were alead at investigation the retention of meanweight material such as stories, prope, and pictures. He often used the method of serial consideration to alread the subtest would although by care'd the next modified the original material so that it become more femilier and columns to then and that this impressed ever time, although a cartailuse of details and, thus, a phortocopy of the printed waterial, often year allowed him to classify then into two sateseryes: classificers the claims their recall was based on visual images and merkalizars contigues, the actual recall performence of these two trace did not

The editions of leaterfulal abolition, classified fets calls by Builford, found some commerceation in the work of the Austrian popularization, failmentays (1571). She sought to determine the references the processes of analysis, synthesis, and shorrestion and their relationships when pupils read a diagram

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the found time distinct approaches to votes the classes.



To the team found of association of the analyticapticals personal fields selection to review of from an allowers, is to least of a substitution formed and activity only the Figure 1sts closed second control of the field of the field of the field of the pressure allowers, a desirable systemic consumers of the figure of the field of the second of the analytic closely of the first stage, used a control of the field of the field of the field of the field of the pressure of the analytic closely of the first stage, used a control of the field of the fie caheed Tites. Never, there were a five students are such fastists the excellent bringship visites cause or admitsional instruction. While memority concludes that character states can such years highly care local interaction, analysis, and symbosis processes then did the other in, but also show the attitute or discovered area or a fraction of instruction, but also show the attitute of interaction, can are content and processes and creations are placed or instruction, carbon of the thought processes and creations amplied or instruction, carbon of the thought processes and creations amplied or instruction, carbon of the thought processes and creations amplied to the throught processes and creations amplied to the content of the throught processes and creations are placed to the content of the throught processes and creation amplied to the content of the throught processes and creations are the content of the throught processes and creations are content of the throught processes and creation are content of the content of the throught processes are created as a content of the content of the throught processes are created as a content of the content

Menery of Facts and Problem Solution

That there is a most for browledge of both centers and processes in any seccessful problem-solving situation has been for by smarel resemblers.

Positions (2015) transitionals the relationable belows with the called, the kinds of head-edge. (1) general beneficies of the course of the problem's beliefers on on to construct a gles of 'swoonwie, and 21 a definite system of 'discretical bookings woolf could be a given problem. She presented duts so 13 statements who solved the following published.

The etappea's of a tropuspid divide it into four triangles. Prove that the triangles on the lateral side are companion.

The thre to solution for all standard varged from three missions of furty mission. Individual relation that one of her majority, when C , for all of the solution is solven the most 2d mission to believe the most five because he lacked precises below from 2d mission to be facts and could not proceedly stability that prohibely reperforment allowed the contexts of equal and equivalent which lead the 4d

Tesk for sentently of transplan resher has compused of trianglan and be recitied, recorrectly, the "fact" that the disposable of a trappacid sincer such other, Only after several attempts of a schaffled be forward for the once of a triangle and salve the problem. Intervals (1915), is the study of width plany several members.

to mendion solution but that it innarrots with other fortune. the numerous that even with a minimum around of content hald in memory. skylony to one contain hourselves may be reported. When her metal that definitions and theorets which had been opportunit to memory were easily retrieved for use to the salutions of problems but these visit were given reference shoots and had then employed. Sourcer, in on a prerountside browledon test. Hastoniki comfinied that new "organized" in content or relately of seadelps is major any be hardware. The also appointed that studies in appoints remined arms. erors can be determined. Hards, in this stady, flags concerns contact arms of the instrument used to ensure factual and openional provisions less (IVII) shalled the relativishing believe consideral solutions of approximate and six facts as the relativishing and proximate and six facts as the relativishing and a six facts and the relativishing and the proximate and the six facts and the proximate of the facts and the proximate and the six facts and the proximate and the six facts and the proximate and the six facts and the second proximate pr

wind by the flavorary hvalles district Project, NECO-INCES, to endport. The Proventiable Paris has we constructed as consist all financial involving encourser to solve the two voice of king problems that concerns the problem-outsing transformation. It was also determed to precent questerful actions to the cone content to both variety and clearly seeks.

cont. Permittee and Site

is early as SETT the hantin psychologist, lighter (1991), magic to determine how the dispraw was used to community with the logiskal elements in selfring powerfur problems, as well as how the mastery of a system of concepts affected their solution. Her work lod her to control and coloration that is size a profition in them or a finite organization for the first of the coloration to the first province or below much of the coloration to the first province or below much or selection and instance of anomalies in the off the coloration of anomalies in the coloration of anomalies in the coloration of anomalies in the coloration of anomalies or anomalies of the coloration of anomalies of the coloration of the c

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Fisher (2077) also found that stockets have a preference for figures drewn spright. She surveyed the perceptual literature watch Influence look require lace to a bross presention of workfool from earl operating store, a vertical lace them lated to perform which of storettions are stored as the lace of the lace of the lace of the lace of proper particular properties of the lace of the lace of the lace of properties, you can be presented as the lace of th

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The special security of relations on the recognists are acts test seen contrained a measure of relations since a stated were surveyed in the fall, and rest of the find completed a high school generity course the previous parties. Authoritistics willisting of the instrument was established by these rethreation educators, all or when the taught generaty. It was concluded that the fall-infold these in the instrument representated the content cowned in a con-year high school multi-metrics plans in Eaclidean providey.

This chapter includes the pilot study smallpoon, as well as alsocation of the Engineers, design, procedures, and methodolog

The Instruments

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strokas-compose them 3.0 is a serial none, and ill particili from on a paper same. The right them as with section and with the legislar and right notices in Carloman paper, the result is the similar to participies, and ellicate transferenties, the right metric and from themselves with circles and nonequest tests right metric and from themselves the last 3 them effects the showshar to the area of a Circle, was of a last, and without the other, researched, a last complementation the last 3 them effects the showshar to the area of a Circle, was of a last, and without the other, researched, a last complementation of the constant areas for referred to m them then for toward I-10, respectively.

Cowtent.	Class Malbered	Score.
Rigid metion	1-11	1
Ditation portion	19-00	11
Circles	21-26	113
form/se	36-38	19

Kiss, each tow in the Prevention Facts limit sale the student to show a response that best describes his/her shrifty to recall the

information requested by the rism. The categories, developed by

1. Supplied tweetrately

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6. In the consistent footing literated that the content footing is a consistent parameter and what is stored for literate and workly amortises, the little cologier was considered a distinction of what footing the parameter and interfered in the literate external leaves younger the little that the interfered in the literate external leaves younger the limit the indistinctions toldicate either that the information sensor resided large-dem

contractions. The all tolers the accessories the fact that therefore the process of the accessories the contract concerns anomal or access of the access of the accessories of th

there IV and IV of circle I determine it is no that IV TEL. there IV is drawn. If it is not the length

of ET.

This problem could be solved using stirlier triangles, congruent triangles for by a direct application of appropriate theorems. The number of item the soutest night use from the Proceepittie Rocks Sett, for each case, in some state, and two researches, include receiving.

is triangle NT2, angle NT2 is comprosed to angle ETV. P and 3 are paints title to TV and 15, respectively, such that

on IV and II, respectively, such that IF T IE, IV and IV meet at E. Show that IF T IC.

could be content using 1 test 5, 6, 5, 6, and 2 from the freeze-content factor from the recommendate subscript was subscript and subscript subscript and the fractivenests sensored vs purpling those storm appropriate for the commendation of the co

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electricisted during this first per of the project presented the nethal stimuli first and the figural stoods second. A returning smallyss project Easter-disharkon II extraors or .TR and .33 for the second or firmula setting, respectively.

The data from 237 statems were analyzed as a print story and



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Note:

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ltse System	Verbal Correct and Figural Incorrect	Figure Correct and Versal Jegorrect	Verbal and Figured Both Carrect
25		4	16
22	9	22	59
27	16	22	33
24	1	27	76
26	4	41	38
26		11	1
27	36	12	33
25	17	90	44
29	19	13	54
30	7	25	
30	7	25	30
32		22	63
33	16	16	

Esen Number	Figure I Incorrect	Perhal Snoorrect	Both Correct	
36	11	12	38	
37	3		86	

Varial Correct Pigaral Carrect

responses to Group IV Stees by

- Some content areas, such as Stoop I filter, are none libely to be recalled than others.
- such as Group III norm, and 2. Assuracy of recall of content areas may be genterestably affected by the most of
- percentation of the schedul.

 Because the questions proved to Chapter the Concerning mode and contains
 at recolable information were revision as five bypichases to be test
 by the present investigation gains shall established sharing the second
 more at the investor, 1879-80.

the Present Staty

The data state for earlying in the prevent study were distributed as the SIGN and SI

that advant. The cities, high schools, and students that comprise the

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No. bent			
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Onrhitophe	- Octavious High School	23	
Reclary in	mier Fryk School	14	14
Stinger, Ger	rris		
Towers Hig	a School	10	2
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0.4 9911 1	righ School	13	,
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Thus, ourside data on the Prescription Data Feet were switched on No tudents. Gats as the Gatsal boundary from serie compiled by anything a 1 on energy receives assepted or convext. And a 2 to atternal Demonstra of the popers sero quartites placed 22 scientists in the supermutricip production with a new second 15. Anotypes were was used with the costal population data and a second time with data down this serve quartitie.

The hypothesis for this stody were governed from the quantizes

F₀). For the total population, there is no difference between the total mean worse on the Proroquisite Facts Test (FFT) for

ight for the constation coming in the opportunities, there is no difference between the total new somes on the Proreadilla.

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giv for the total population, there is me
interpolation between the four content group

and the two presentation makes.

In the comparation scores in the upper quartile, there is no indensities between the four company arms and the law contents.

the four cretent areas and the two precentation modes.

a_00 for each of the content areas and made of presentation there is an Officence to the mean names obtained by the Sotal Expoliation and the population scoring in the upper constile. The designation and proceedings of the control of t

The shedy whillens is 2 (mode) at 4 (posteros) design with reservation on the second fractor... \$9(1)-pick \$0.000, was used to entry the deat for the whole amply and the upperfection sheds threepoints:
Firsts Set serves \$101 (in the upper quartific of the distributions... \$90 order to commonist for the violations of assumptions to this violations of animal product to the pick \$100 order to \$100 order to contact the degrees of freelow were Balletin and Justice. \$2(5)-theoretic to review the degrees of freelow were Balletin and Justice.

In late study there were IRS statemts to the preclistics surveyed by the Proventials Points Instit Iale in the Sestal proup and IRS of the Figural | The design and part of the AMEN labels benefing the curves—trough and adjusted degrees of freedom exposers thes:

Hans.	hosel.	Digent	
resp 1	136	104	
roup II			
roup III			
rear IV			
	+		

A similar adjustment was made to computing the degrees of freedom for the F-casts invalving the upper quertile population of 7%. F-sasts were performed for made, composed, and mode-dy-comitant instructions upong the operated blant and adjusted degrees of freedom where

In ower to detected to lettlewise of each contact error on local lacers, represents contacts that would canadar store as a fractive of total resemblish facts lost scene, by sook, were detected. The way done to book to be specific content, which may be differently restricted to each contact. Action profession as one of efficiently restricted to see charge critical professions as one of efficient bondesia excess contact errors. This of the hypothesis by well-you set versions and the registrative worksion way presented in the less called

Severetian of Hypothesis for Sylam Research

A secondary intent of the study wax to penerote cone bypotheces refleted to less facture? knowledge may be stored and notificing those to position saluti

Geta Gol'Tertifien

Stomes shakets from how high sobole's in Submersile, Sharket provided data that were constrict for othe special of the President's dow of the Double to a large, and the other is shaded soutness from any schole backgrounds are represented. The other is a smill, private high school, largely compared of an apport-diddle-class, white applications, Sout of the schools were conducational.

The St Materials were exemple between the profit legislation. These Prevential facilities along a modest by imposition of the product by imposition and the profit legislation of the size state that is been been been contained the recognition. The frontisters demand these students extend a finite production. The frontisters demand the students of the control public field of the control public

The Problem

Since knowledge all same flocked (otherwation to memorary conditions for waitedbay, the consensat lines on the Percept file Facts That that could be used to such problem were yeared and converted to percentages all encounter recognize. The searchies and the Provoption Habita Task I from content recognize and problems and the Provoption Habita Task I from content for solution followut I so that Of I CC. Deer M is draw. If M = s or, rise the larget of M.

Prerequisits Facts fact (temp. (1, 4, 5, 4, 7, 13, 15, 22, 24, 26, 30)

Fruits Is briance NYT angle NYI is compound to major NYT, and the public leads of W. and M. competiterly, but the NY 1 NY. Film of ment at K. Naw that Fig. 25.

Proregulate Facts Sect States (1, 4, 5, 6, 7)

lassified to compressed in ed., "reportant seasons and "had its section energy," were distinct. Finally installations were seried on a -continuer, with shipping the moleran section. — believe shipping the produces whichen source, preventings of frictial handleign modalities coverage to the product of the product of the section of the production of the section of the section of the section of section levelings in successful and suscessful section satisfacts and the section of the section of the section of section levelings in successful and suscessful section satisfacts and the section of the section of the section of a lab to subdivide and operated in the next deprine.

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the schools to determine, Floride, Constant and some one state in Charter Star-

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This cluster precisis the results of several environment of the date. Notificial seed were the software frequent has cleared or the Sales developing bear of Partials, Loster on the Membergial of Partials cause in Salescritte. These martitude beards the competent from precessor on acts, the beards 400-400 and 198-2014. Programs from the Societies's Bearlies (SAS) and Societies framework of Sales Societies (SAS) were selected and used with the Pomerford Partials Societies. Sales Salesce and used with the Pomerford Partials. Partials. Salesce.

- MACE reliability coefficients for all on arous of the Proregulation Facts Tost with
- and screen made of precientation

 2. Prequency distributions, histograms, and se
- futal sean ocone for both verbal and figure! motes of presentation within and scroom contact.
- Jacks, tables that common the effect of skites' mode on the centest areas consisting of stems in Groups 3-12+ and

5 Regressive exections that regress each content erms on the setal Prerequisite Facts Text states, the cotal Prerequisite Facts Text states exflusts responses under each rock.

Next some, the stall Promovisite field.

Togs some vertices response under each mode.

To issues critishiting of the Promovisite Assess Seat, XR-20 coefficies
were calculated for all content erose, within sea series code of

spectra foreign information is recolled to each of the versal endfigured makes of representation by sold the call auxilia and the and the profition constitute of those induces who shaded in the upon that the or correspond to find. The call are informations were collected for each point. Service of the hypothesis were feetingsted under white the Accordance and a second time only them induced to the upon quantities, the margine releases to the hypothesis for each point error control consection.

Since all but one or the allesting question states on the Proving state Test required a productive response, way research that has accounts was considered correct. Item 5, for exemple, show have to both codes which are overall response.

212

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Dress 11

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of student responses included the followings

. . . is the supplement of the adjacent angle

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All were considered correct and assigned a value of h. Thus at didivisual could achieve a maximum score of 70 on the Prerequisite Field Task: 36 from the Boriel institut And 55 from the Figurel.

Sealpois of Sele from Sie Salet Sample

Ton butterston

The six of this test length engined was DMI. 136 to the deal group and DMI in the First ord page. The enteresties of stateman specific correctly to each face were calculated for the group CMI. appear from to the week look are for the prop test expectation of the face of the first order of the properties of the first related enters of balline 6-5. Preparancy filter-fractions and Mologome relation could be the fore-contact errors and presented, by today, in properties.

Table 6. Percentages of correct responses to item from Group on the Gital sepulation

Item Number	Serial (8 = 136)	Pigure (8 - 10	
1	N	64	
2	10	15	
		14	
4	82		
5		60	
6	11	64	
7	12	22	
	90	11	
3	86	83	

Table 7: Persentage of correct responses to items from Group II in the total population

12	29	st.
13	65	86
14	41	99
16	60	19
16	12	43

Table 6. Percentage of convect responses to items from Grove III in the total appointion

	No.	
Eten furber	Sertal (5 = 126)	Piperel (8 - 106
21	88	16
22	S)	.76
20	20	49
25	37	90
25	57	36
26	28	35
27	26	92
28	44	63
26	82	71
30	22	44
31	45	67.
32	66	83
33	25	28
34	21	25
35	S)	37

Tunker	(8 = 128) 20LB1	(N = 114)
M 17	D D	62
30	14	81
38	55	76

Mean servertain of correct

Group III Straig IV

An interest we "Table in augment when the right content review were smally with results by the total production." Seeing free shortest an expectate same of sevents responses, from II beau, and down III these the least. Of the three formula tisses only III, enlarges an III the formula for the results of the same of a server, we respected to environment of the same of a server, we respected to environment of the same of the

proces of Pean and Sentent

the conjectures where the relationship between content errors and some of presentation.

 $H_{\rm p}$) for the total population simplet, there is

or the Verbal and Figural proops on the

Ny Die Für the Latal population sempled, ihere is no interestionischempile four content areas

and the two presentation entires of the question of the two states as the Presention Field THEST.

Table 10 presents the means all statemed consisting for the snight of of the design. To adjust for the anapuli numbers of stoms in the

contest eroso, subtests were sooned in turns of percentages of from correct. The descriptive pictualities in the table refer to this method of scaring. Figure 2 is a graph of the most percentages of correresponses to the context overs in both vertal and figural modes o

The results of the quiti-cycle design and the corresponding enallytic of arrange any seconds to facilit 11. The MINE Seem is a significial reflect of some contents, and a semioritism which is under tools with the contents, and a semioritism with the contents of tools with the contents of the contents of figural mades are of an ellipse, the contents of the contents of the contents are semigrated to find it. X. Authoristic—linear Content, 1800,1, using a critical value of X.1, showed that only the sizes from the content areas, where I show I show that the contents are contents are also show that the contents are contents are also shown in the X.1, showed that only the sizes from the content areas, where I show I show that the contents are contents are also shown in the contents are also shown

Analysis of late from the apper quertile

Of the Bill Males saveryor, 27 sorrer in the upper question all A ran Joseph of Common Programs or more. Proceedings of assumite response to each time to the central series were obtained for beld the first of Pigeral range of this profession. These conceptive satisfation are prossible for East 2-3-3-4. Propany distributions and histograms for stocks source for the flow coulent areas entire in Eastern 1.5.

An impaction of the data is halded 12-bit suggests that must all content stress were equally sell resulted by this pumplation. More correct responses square to the green on lites of more feet them to any stear conduct ones, come from through III and IV show the smellest

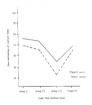


Figure 2: How percentages of correct responses to content areas by mode on the Satal population

Teals 11 Summary ANDAS seals for the effect of mode and content Break in the local population

Hote of Stinuit	1	1.678	11-25*
Error	220	.146	

Great 838 940

*Superscript t denotes conservative regress of freedom for the combent and contact * mode effects

Table 12. Hardred moins for the four content store

Contant is Mana

	Control		
droug 1	Greep 11	Group IV	iros III
71	47	12	66

Table 13 Percentages of correct respenses to Steam from Group 1 in

I ten

	10	79
2	100	79
		17
4	100	12
1	84	100

Percentages of correct resolves to itself from Stope II for

Iten Surber	tertal (x = 50)	Figure 1 (6 = 34)
		100

Gross TV

Percentages of correct responses to itses from Group IV

consistence of subsection required. This IT throwster the reason to continue for actions for expert and we first a regular and the reason for pages 2 for a prince of the cases assumed page of accounts increased to the continue for the continue

[ffeet of Made and Context]

hypotheses 2 and 4 formalize some of these conjectures at ata.

- or the population scoring in the upper martile, there is no difference between no total mean scores of the ferhal and ignal groups on the Prerequisite Fects
- igh. For the possibiles scoring in the upper quertile, there is no interaction between the four content areas and the two precetation motes of the westite size in the

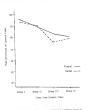


Figure 3: Mean percentage of correct responses to content orems moon to the upper quartite population.

NAME OF COMMENT AND TABLE FOR the affect of rode and context order

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Equariorist t conotes concernative degrees of freedom for the content

"Tupercoript t congces cons-

table 10. Hardral many for the fear contest areas

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Score on Group I. Homa represent an total acans





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Total	1	/441	309 21
Ysoul + Mode		1076	6.19

Table 21, mont table for the effect of mode of Stheal1 and table Presequints Sects Sept serve on times in Broad II

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finds 22. Still tests for the effect of rode of stimult and tutal

Node of Scimili

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regularity Fects Test score on items in Group II

repression times approach each ether ovise closely in this region. Thus, the total population produces more correct response to itself in drug. I show the mode of preventation for figurally the new Solvent pupulation receils the factoral knowledge contained to itself from from I repeal by well in load modes.

Figure 5 despites a dissociate frameution and the T value of Link model. Et considerates the significance. This interestive ensure joint black where the regime of the gaver blacking significant health flow, let have voiring positions produce some cereint received in these to draw ET serves in the regime all which are they could be population revisal to differences in accordance requests to bett serves or presentation of the tethnil.

The Data State was set to security of "State In Some III" and In State III and III all the III of the State III and III all III all the III and III all III a

though the analysis produced different shapes and sidewaysis for the world and figural requested bloom, they are not significantly different and may be processed by virtually the sizes from. The repeatable, x = 2x + 1.08, and controls the refreshealth primare the prediction of accurate responses to first from from CT and to the SAGIT Promodifies from Those. The same was of extending on the model to the CT from Those.

eace between the firth!

while spectrain 6 may appear bravial siese the bal population were out independent and the book Provespirite Facts Test some was obtained by swenne serves the content-code errors, it has selfil of fourable to Rome have different these societies. Specifics 5 to waited here:

 $\mathbb{F}_{0}^{(k)}$ for each of the centent areas and makes of prescription, there is a

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porcept to the top partition. The assessment of the top partition is assessed and their efficience are since in Tables 38 and 26. Mol/18 all the efficiences are used as presentation between expellations are sharinger, and executed, the ground in differences septimized appears to get time from Evong III. The season population produce 38% some conversation for the company of the season of the conversation and the conversation to the conversation of the conversatio

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Same hypotheses generated from these observations that should be taying in future research studies are given in the next chapter.

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constru scald be able to recall such elementary formulas as area and volume. Must was aren more surprising was some of the Societies response ction. Their technical bir. It, and It for such of the three tasks rec-Free the state in this study spice recommendations may be made

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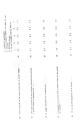
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